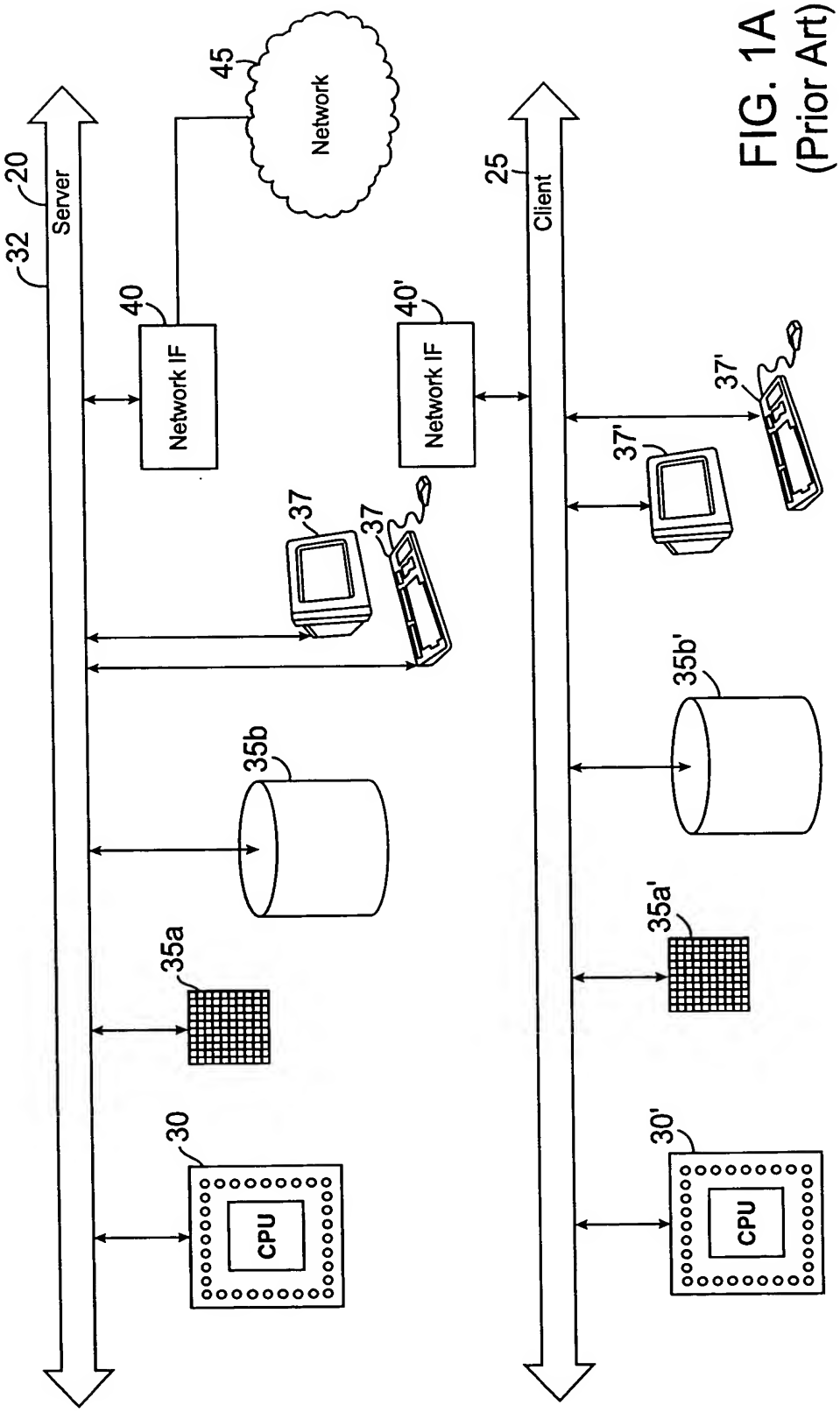


FIG. 1A
(Prior Art)

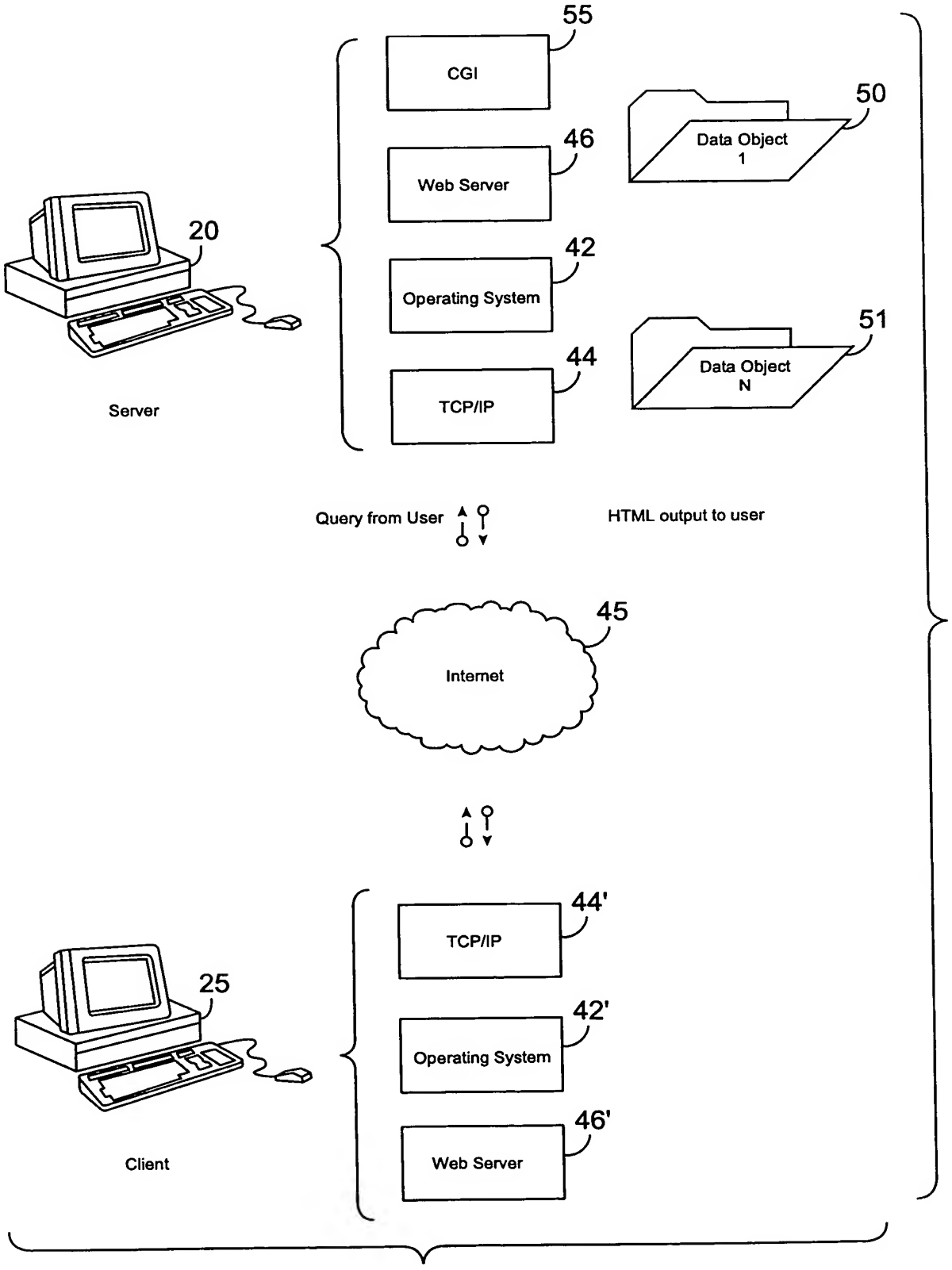


FIG. 1B
(Prior Art)

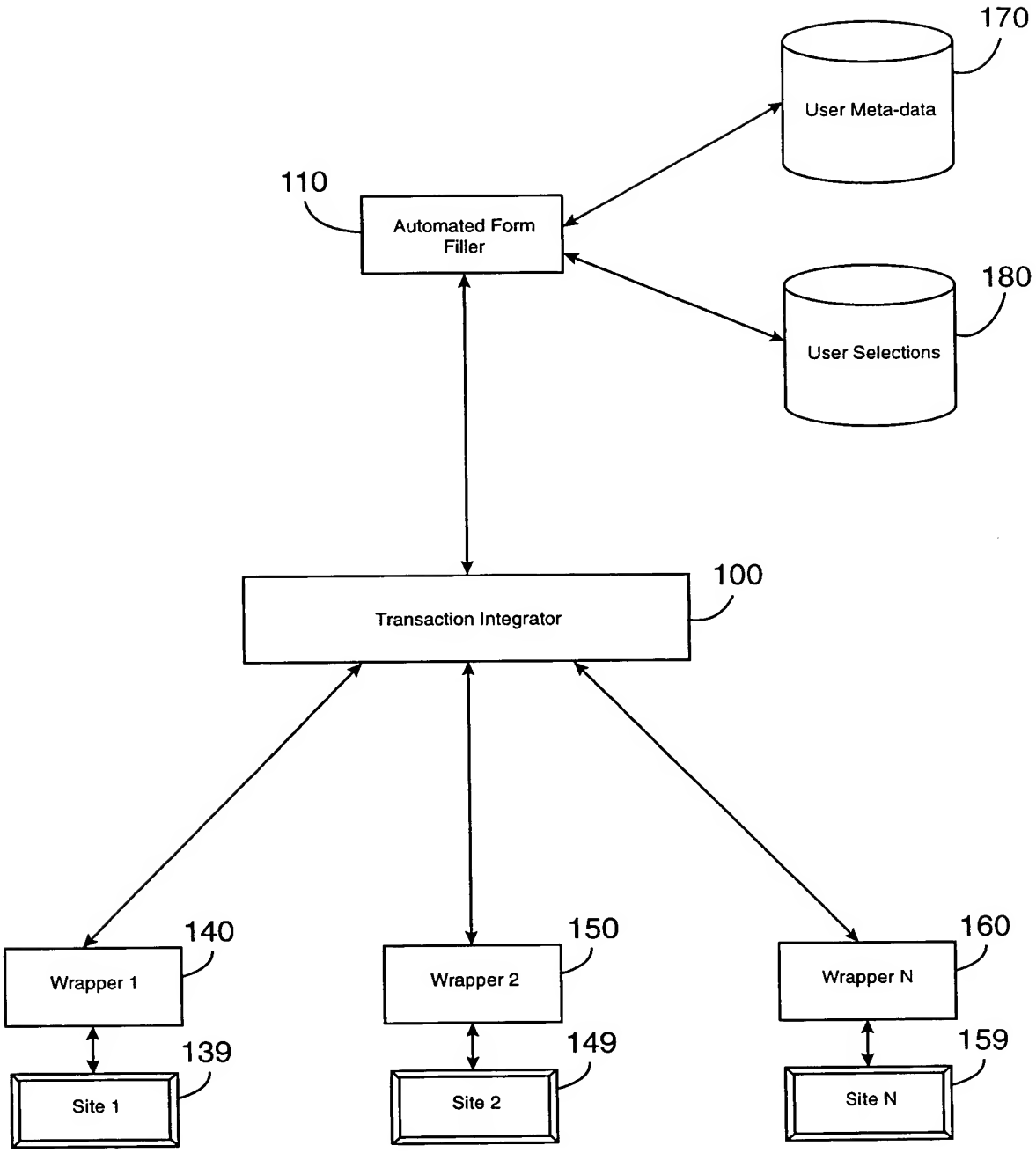

170
User Meta-data
110
Automated Form Filler
180
User Selections
100
Transaction Integrator
140
Wrapper 1
150
Wrapper 2
160
Wrapper N
139
Site 1
149
Site 2
159
Site N

FIG. 1C

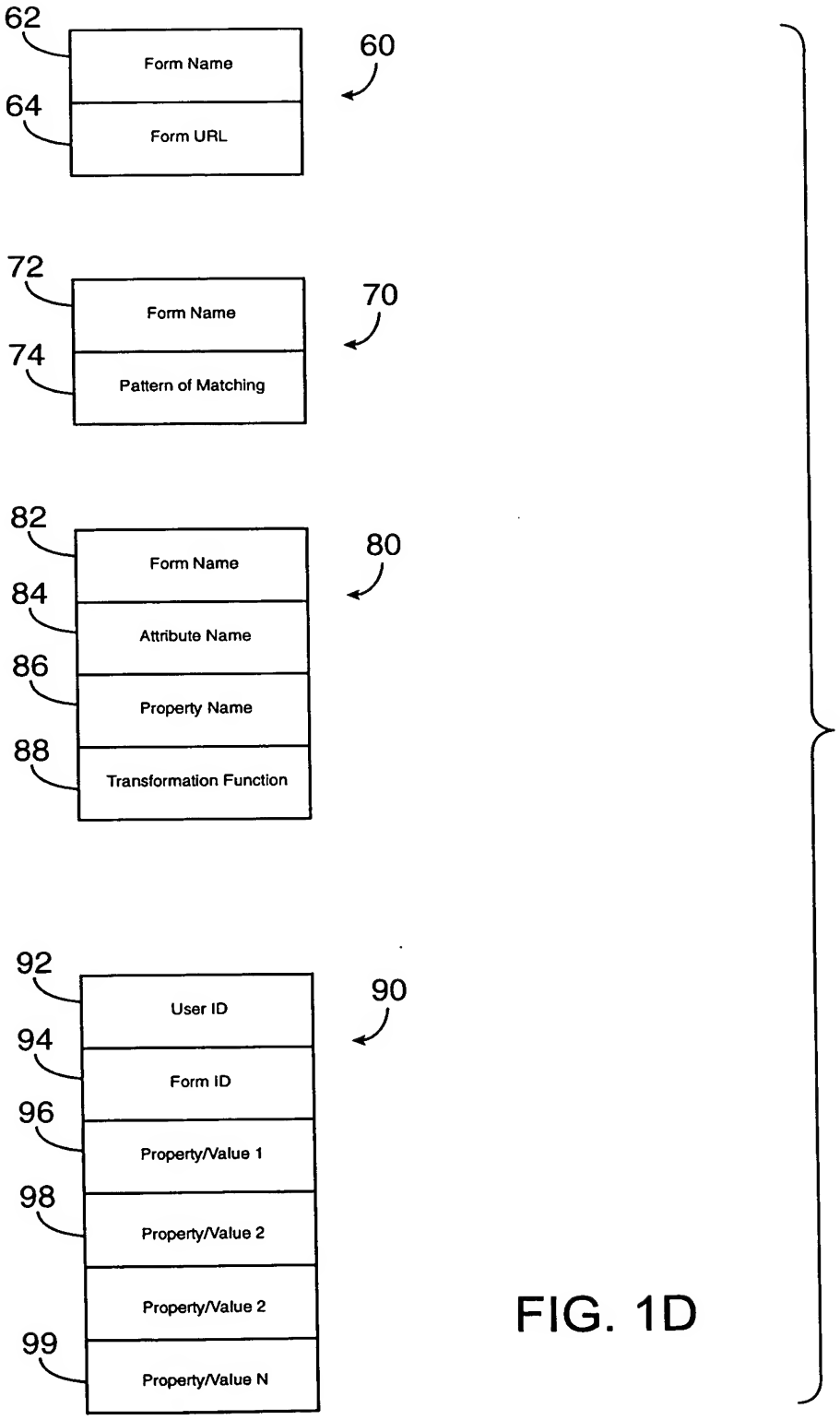

62
Form Name
64
Form URL
60
72
Form Name
74
Pattern of Matching
70
82
Form Name
84
Attribute Name
86
Property Name
88
Transformation Function
80
92
User ID
94
Form ID
96
Property/Value 1
98
Property/Value 2
Property/Value 2
99
Property/Value N
90

FIG. 1D

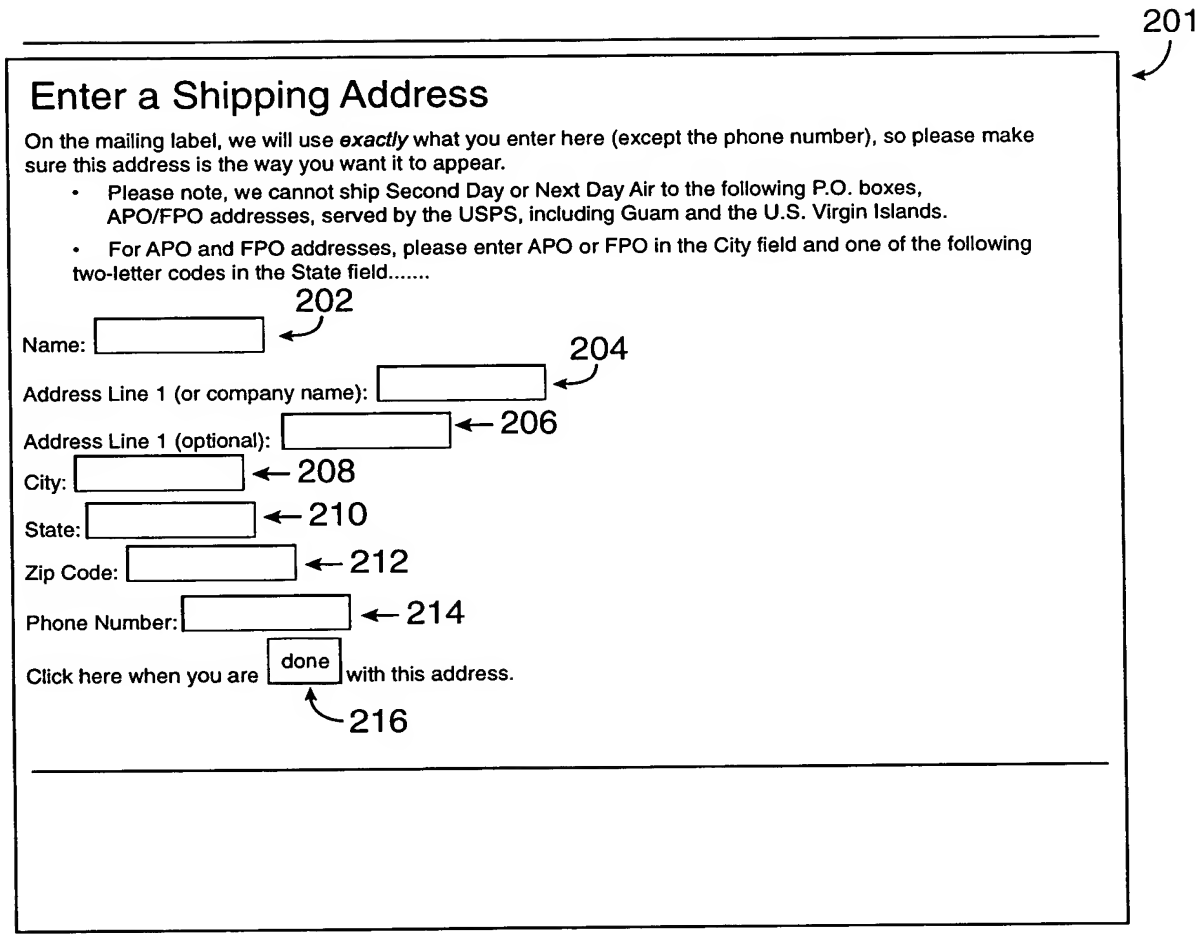


FIG. 2A
(Prior Art)

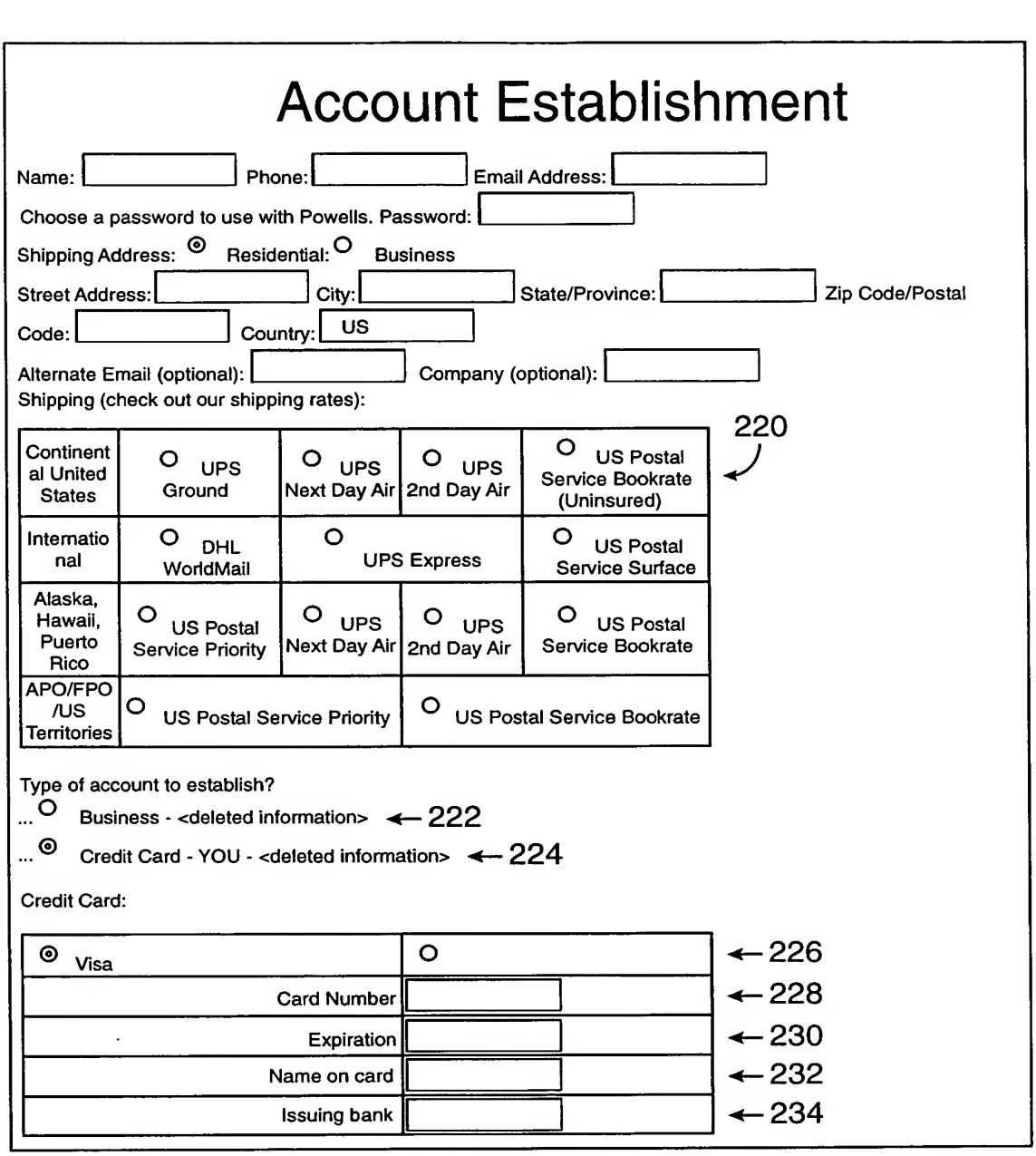
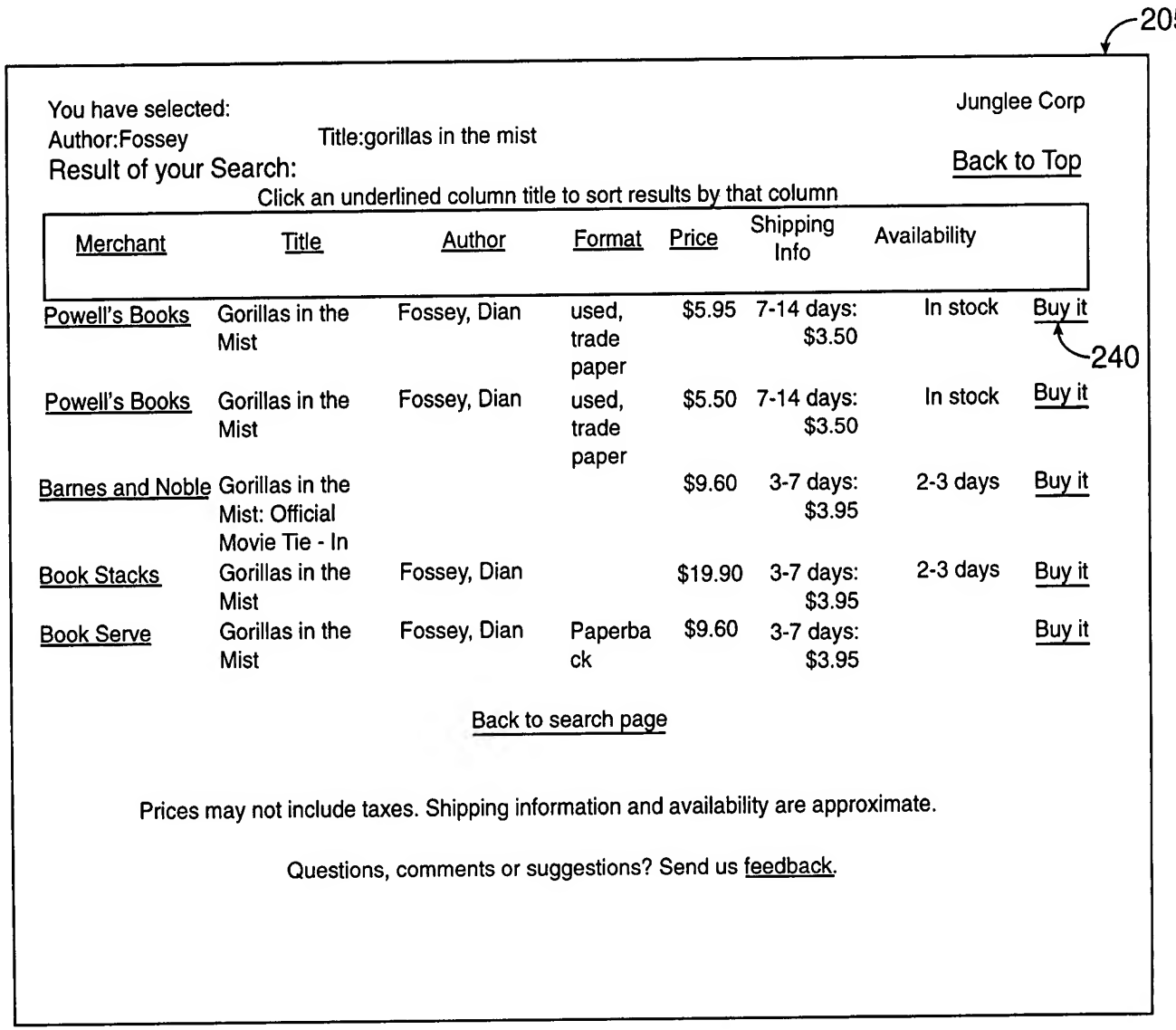


FIG. 2B
(Prior Art)


205
You have selected:
Junglee Corp
Author:Fossey
Title:gorillas in the mist
Result of your Search:
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Click an underlined column title to sort results by that column
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Title
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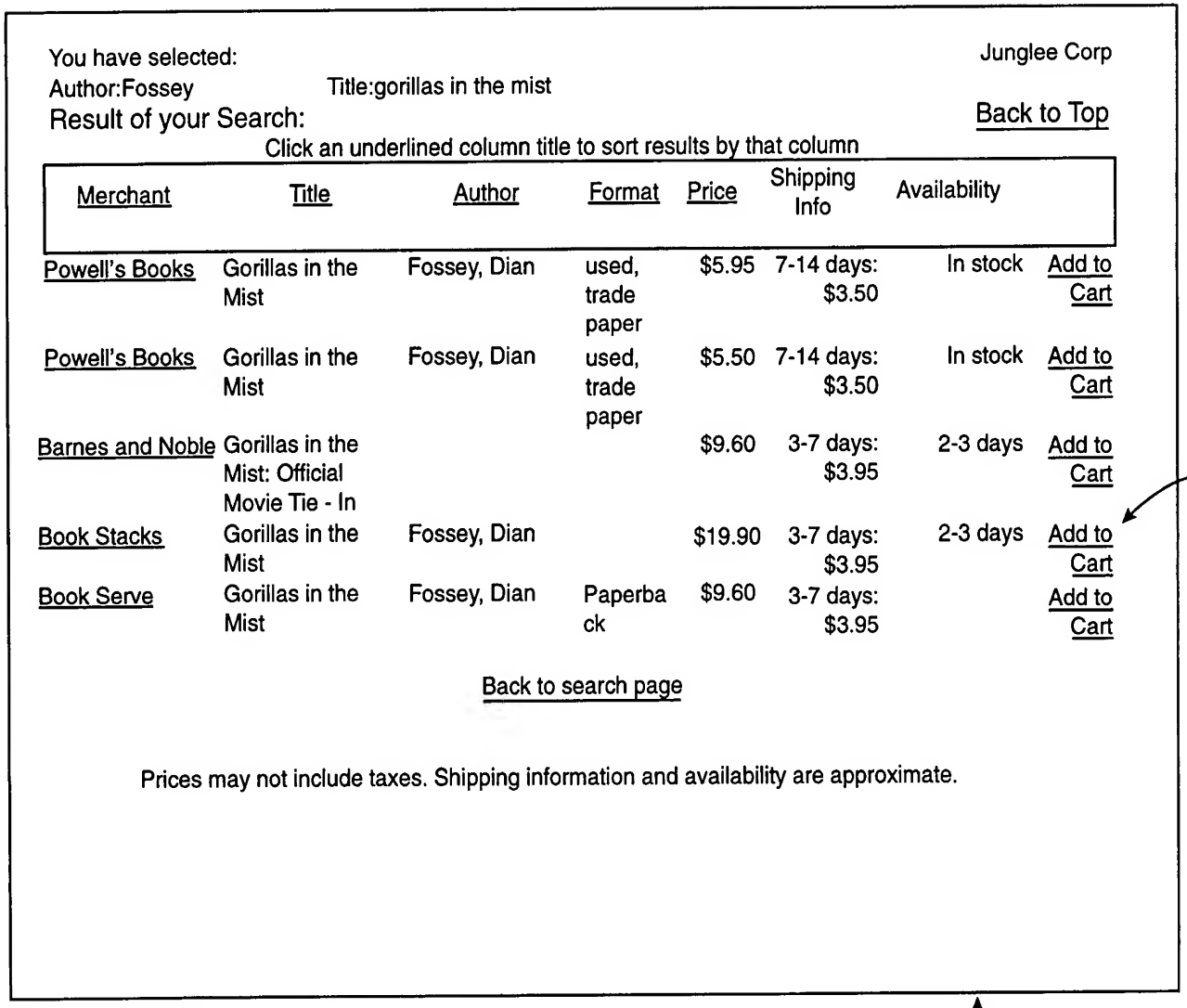
Prices may not include taxes. Shipping information and availability are approximate.
Questions, comments or suggestions? Send us feedback.

FIG. 2C


You have selected:
Junglee Corp
Author:Fossey
Title:gorillas in the mist
Result of your Search:
Back to Top
Click an underlined column title to sort results by that column
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Title
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242
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3-7 days: $3.95
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Prices may not include taxes. Shipping information and availability are approximate.
206

FIG. 2D

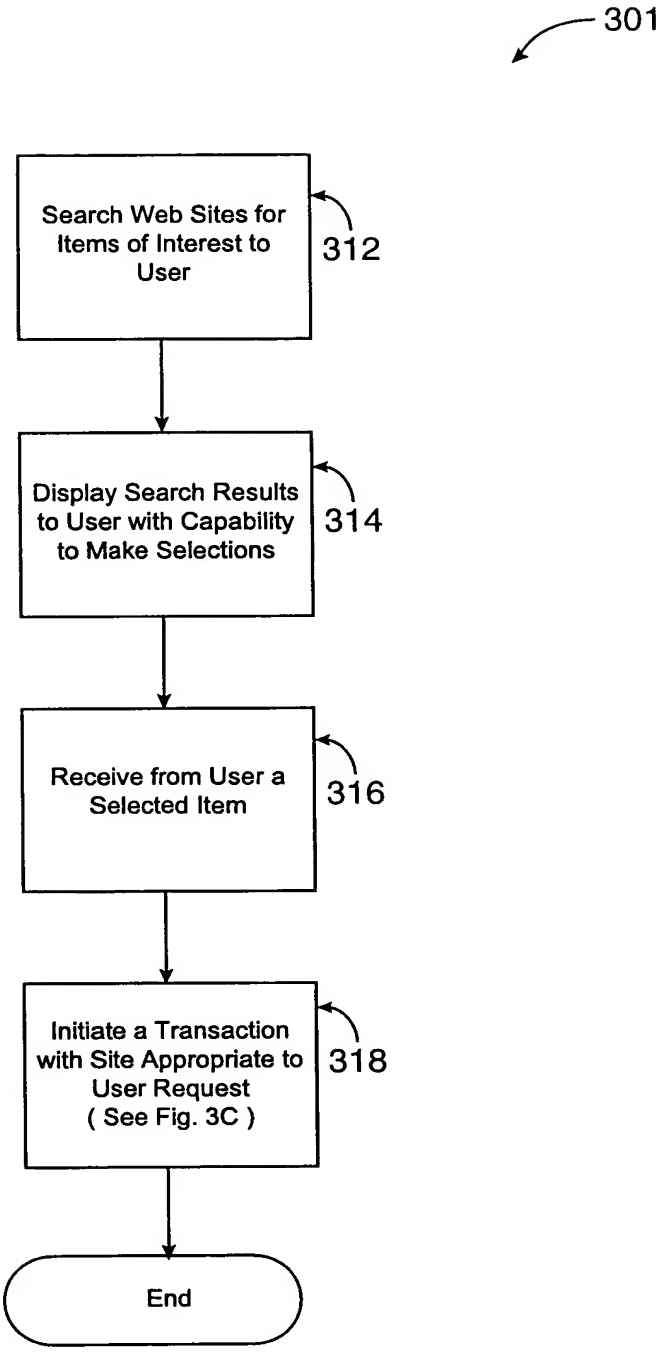
301
Search Web Sites for Items of Interest to User
312
Display Search Results to User with Capability to Make Selections
314
Receive from User a Selected Item
316
Initiate a Transaction with Site Appropriate to User Request (See Fig. 3C)
318
End

FIG. 3A

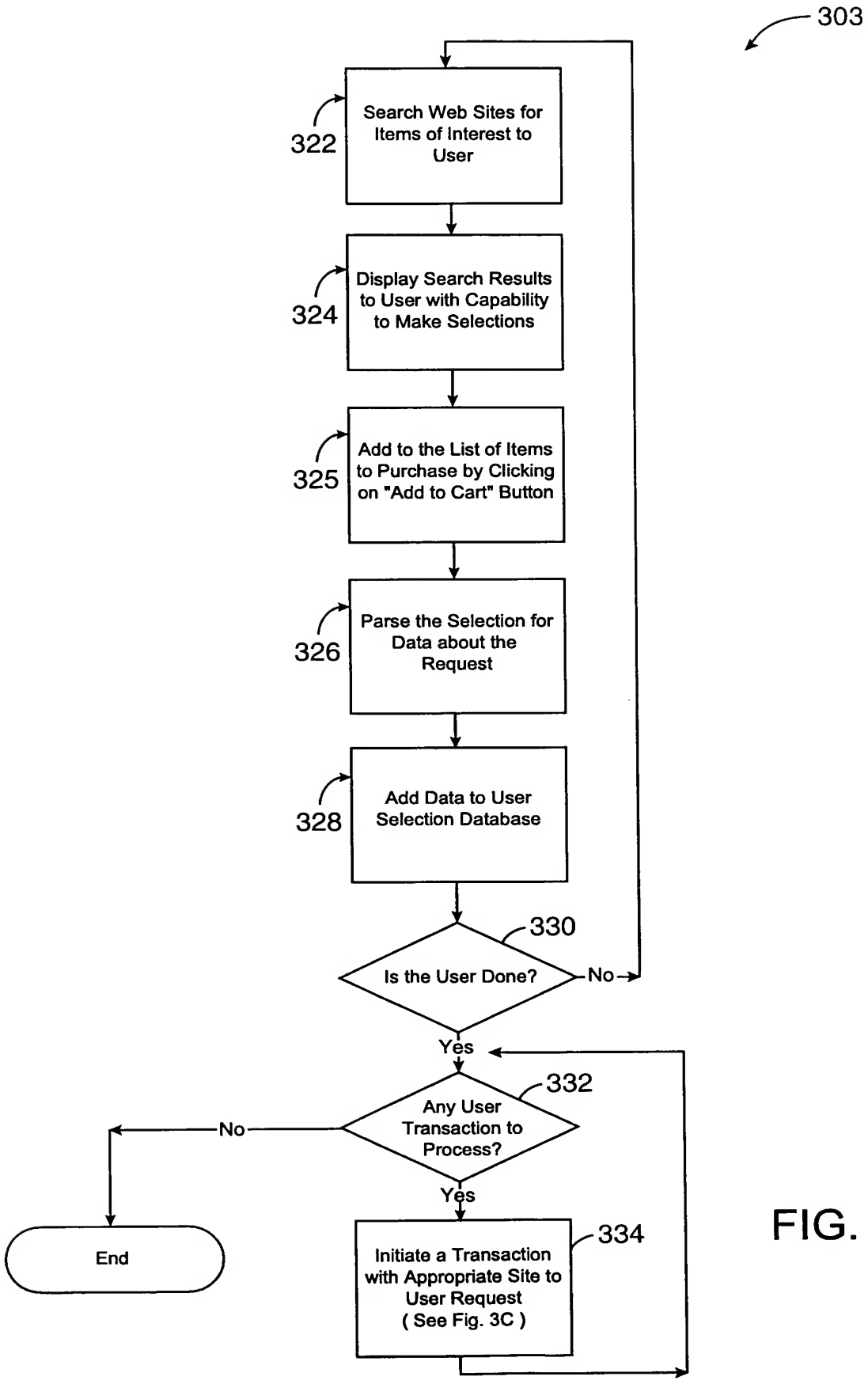
303
322
Search Web Sites for Items of Interest to User
324
Display Search Results to User with Capability to Make Selections
325
Add to the List of Items to Purchase by Clicking on "Add to Cart" Button
326
Parse the Selection for Data about the Request
328
Add Data to User Selection Database
330
Is the User Done?
No
Yes
332
Any User Transaction to Process?
No
Yes
End
334
Initiate a Transaction with Appropriate Site to User Request (See Fig. 3C)

FIG. 3B

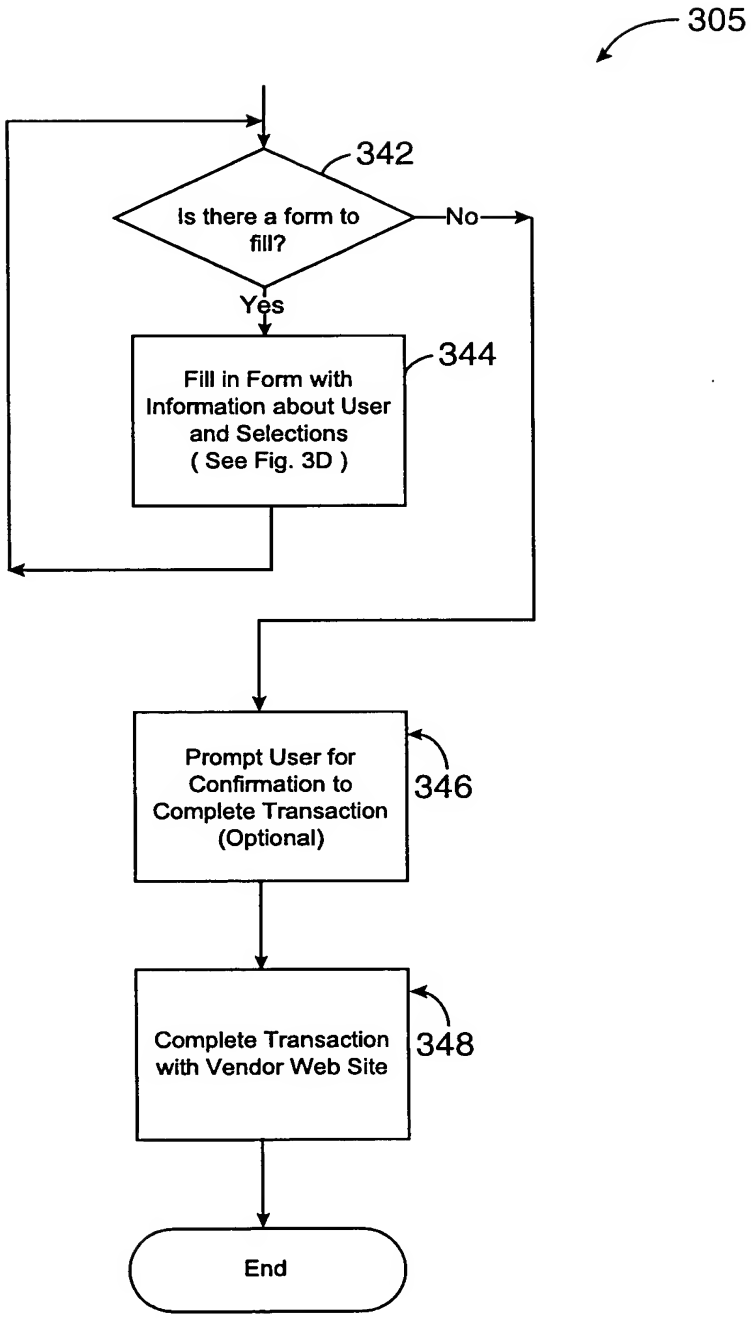
305
342
Is there a form to fill?
No
Yes
344
Fill in Form with Information about User and Selections (See Fig. 3D)
Prompt User for Confirmation to Complete Transaction (Optional)
346
Complete Transaction with Vendor Web Site
348
End

FIG. 3C

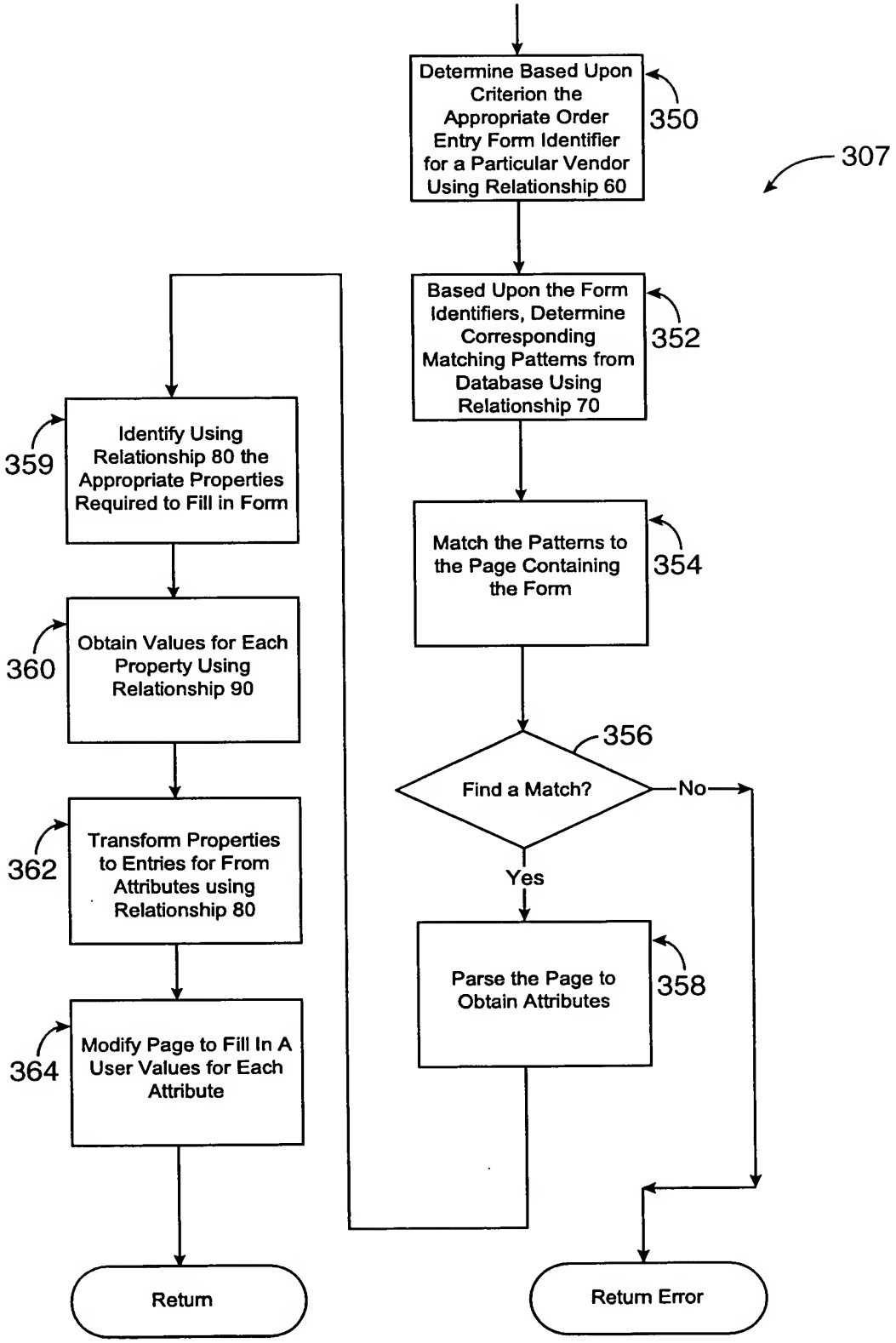
Determine Based Upon Criterion the Appropriate Order Entry Form Identifier for a Particular Vendor Using Relationship 60
350
307
Based Upon the Form Identifiers, Determine Corresponding Matching Patterns from Database Using Relationship 70
352
Match the Patterns to the Page Containing the Form
354
356
Find a Match?
No
Yes
Parse the Page to Obtain Attributes
358
Return Error
359
Identify Using Relationship 80 the Appropriate Properties Required to Fill in Form
360
Obtain Values for Each Property Using Relationship 90
362
Transform Properties to Entries for From Attributes using Relationship 80
364
Modify Page to Fill In A User Values for Each Attribute
Return

FIG. 3D